#5

SEQUENCE LISTING

<110> Szostak, Jack W.
Roberts, Richard W.
Liu, Rihe

<120> SELECTION OF PROTEINS USING RNA-PROTEIN FUSIONS

<130> 00786/350005

<140> 09/247,190
<141> 1999-02-09

<150> 60/035,963
<151> 1997-01-21

<150> 60/064,491
<151> 1997-11-06

<150> 09/007,005
<151> 1998-01-14

<160> 38

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 76
<212> RNA
<213> Artificial Sequence

<220>
<223> Translation template

<400> 1
gggaggacga aauggaacag aaacugaucu cugaagaaga ccugaacaaa aaaaaaaaaa 60
aaaaaaaaaa aaaacc 76

<210> 2
<211> 10
<212> PRT
<213> Homo sapiens

<400> 2
Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu
1 5 10

<210> 3

<211> 153
<212> RNA
<213> Artificial Sequence

<220>
<223> Translation template

<400> 3
gggacaauua cuauuuacaa uuacaauggc ugaagaacag aaacugaucu cugaagaaga 60
ccugcugcgu aaacgucgug aacagcugaa acacaaacug gaacagcugc guaacucuug 120
cgcuaaaaaa aaaaaaaaaa aaaaaaaaaa acc 153

<210> 4
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Random peptide

<221> VARIANT
<222> (1)...(27)
<223> Xaa is any amino acid.

<221> VARIANT
<222> (1)...(34)
<223> Xaa = Any Amino Acid

<400> 4
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gln Leu Arg Asn Ser
20 25 30
Cys Ala

<210> 5
<211> 25
<212> RNA
<213> Tobacco Mosaic Virus

<400> 5
gggacaauua cuauuuacaa uuaca 25

<210> 6
<211> 10
<212> RNA
<213> Escherichia coli

<400> 6
ggaggacgaa 10

<210> 7
<211> 34
<212> PRT
<213> Homo sapiens

<400> 7
Met Ala Glu Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Leu Arg Lys
 1   5   10   15
Arg Arg Glu Gln Lys Leu Lys His Lys Leu Glu Gln Leu Arg Asn Ser
            20   25   30
Cys Ala

<210> 8
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Translation template

<400> 8
aaaaaaaaaa aaaaaaaaaa aaaaaaacc 29

<210> 9
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> Translation template

<400> 9
aaaaaaaaaa cc 12

<210> 10
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Translation template

<400> 10
cgcggttttt attttttttt ttcc 24

<210> 11
<211> 42
<212> RNA
<213> Artificial Sequence

<220>
<223> Translation template

<400> 11
ggaggacgaa augaaaaaaa aaaaaaaaaa aaaaaaaaaa cc 42

<210> 12
<211> 42
<212> RNA
<213> Artificial Sequence

<220>
<223> Translation template

<400> 12
ggaggacgaa cugaaaaaaa aaaaaaaaaa aaaaaaaaaa cc 42

<210> 13
<211> 42
<212> RNA
<213> Artificial Sequence

<220>
<223> Translation template

<400> 13
ggaggacgaa augaaaaaaa aaaaaaaaaa aaaaaaaaaa cc 42

<210> 14
<211> 36
<212> RNA
<213> Artificial Sequence

<220>
<223> Translation template

<400> 14
ggaggacgaa cugaaaaaaa aaaaaaaaaa aaaacc 36

<210> 15
<211> 33
<212> RNA
<213> Artificial Sequence

<220>
<223> Translation template

<400> 15
ggaggacgaa cugaaaaaaa aaaaaaaaaa acc 33

ficial Sequence

slation template

cugaaaaaaa aaaaaaaacc 30

ficial Sequence

slation template

_feature
..(289)
A,T,C or G

cuauuuacaa uuacaaugnn snnsnnsnns nnsnnsnnsn nsnnsnnsnn 60
nnsnnsnnsn nsnnsnnsnn snnsnnsnns nnsnnsnnsc agcugcguaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaacc 159

sapiens

tcttgagaga tcagtttctg ttccatttcg tcctccctat agtgagtcgt 60
64

sapiens

cactatag 18

sapiens

<210> 16
<211> 30
<212> RNA
<213> Artificial Sequence

<220>
<223> Translation template

<400> 16
ggaggacgaa cugaaaaaaa aaaaaaaacc 30

<210> 17
<211> 159
<212> RNA
<213> Artificial Sequence

<220>
<223> Translation template

<221> misc_feature
<222> (1)...(289)
<223> n = A,T,C or G

<400> 17
gggacaauua cuauuuacaa uuacaaugnn snnsnnsnns nnsnnsnnsn nsnnsnnsnn 60
snnsnnsnns nnsnnsnnsn nsnnsnnsnn snnsnnsnns nnsnnsnnsc agcugcguaa 120
cucuugcgcu aaaaaaaaaa aaaaaaaaaa aaaaaaacc 159

<210> 18
<211> 64
<212> DNA
<213> Homo sapiens

<400> 18
gttcaggtct tcttgagaga tcagtttctg ttccatttcg tcctccctat agtgagtcgt 60
atta 64

<210> 19
<211> 18
<212> DNA
<213> Homo sapiens

<400> 19
taatacgact cactatag 18

<210> 20
<211> 12
<212> PRT
<213> Homo sapiens

<400> 20

Met Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn
1 5 10

<210> 21
<211> 99
<212> DNA
<213> Homo sapiens

<400> 21
agcgcaagag ttacgcagct gttccagttt gtgtttcagc tgttcacgac gtttacgcag 60
caggtcttct tcagagatca gtttctgttc ttcagccat 99

<210> 22
<211> 21
<212> DNA
<213> Homo sapiens

<400> 22
agcgcaagag ttacgcagct g 21

<210> 23
<211> 63
<212> DNA
<213> Homo sapiens

<400> 23
taatacgact cactataggg acaattacta tttacaatta caatggctga agaacagaaa 60
ctg 63

<210> 24
<211> 33
<212> PRT
<213> Homo sapiens

<400> 24
Met Ala Glu Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Leu Arg Lys
1 5 10 15
Arg Arg Glu Gln Leu Lys His Lys Leu Glu Gln Leu Arg Asn Ser Cys
20 25 30
Ala

<210> 25
<211> 127
<212> DNA
<213> Artificial Sequence

<220>
<223> Primers for RNA pool

<223> n = a, t, c, or g. s = g or c.

<400> 25
ccctgttaat gataaatgtt aatgttacnn snnsnnsnns nnsnnsnnsn nsnnsnnsnn 60
snnsnnsnns nnsnnsnnsn nsnnsnnsnn snnsnnsnns nnsnnsgtcg acgcattgag 120
ataccga 127

<210> 26
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<223> Primers for RNA pool

<400> 26
taatacgact cactataggg acaattacta tttacaatta ca 42

<210> 27
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Primers for RNA pool

<400> 27
agcgcaagag ttacgcagct g 21

<210> 28
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA splint

<400> 28
ttttttttt agcgcaaga 19

<210> 29
<211> 18
<212> DNA
<213> Homo sapiens

<400> 29
gtggtatttg tgagccag 18

<210> 30
<211> 40
<212> DNA
<213> Phage T7

<400> 30
taatacgact cactataggg acacttgctt ttgacacaac 40

<210> 31
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA splint

<400> 31
ttttttttt gtggtatttg 20

<210> 32
<211> 124
<212> RNA
<213> Homo sapiens

<400> 32
gggacaauua cuauuuacaa uuacaauggc ugaagaacag aaacugaucu cugaagaaga 60
ccugcugcgu aaacgucgug aacagcugaa acacaaacug gaacagcugc guaacucuug 120
cgcu 124

<210> 33
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA splint

<223> n = a, t, c, or g.

<400> 33
ttttttttt nagcgcaaga 20

<210> 34
<211> 123
<212> DNA
<213> Homo sapiens

<220>
<223> n = a, g, t, or c. s = c or g.

<400> 34
agcttttggt gcttgtgcat csnnsnnsnn snnsnnsnns nnsnnsnnsn nsnnsnnsnn 60
snnsnnsnns nnsnnsnnsn nsnnsnnsnn snnsnnsnns nnctcctcgc ccttgctcac 120
cat 123

<210> 35